

Nevada Bureau of Air Pollution Control  
Calendar Year 2007 Actual Production/Emission Reporting Form Addendum for Mercury Emissions

Source: Cumulative NMCP Data Submittals

Pollutant ID	Production/Heat Rate	Production Units (eg. tons/yr)	Emissions Factor	Emissions Factor Units	HG Annual Emissions (lbs/yr)	Hours Operated	HG Co-Product (tons/yr)	Notes
Source: Newmont Mining Corporation - Twin Creeks Mine: AP1041-0723.01								
System Description: Juniper Mill Electric Induction Furnace (S2.001 - 1 of 2, only one operates at a time)								
Hg	34.69	tpy	0.02993	lbs/hr	12.2500	409	0.0000	Induction Furnace emissions factor derived from 2007 M29 stack test.
System Description: Juniper Mill Electric Induction Furnace (S2.001.1 - 1 of 2, only one operates at a time)								
Hg	39.23	tpy	0.0425	lbs/hr	17.9400	422	0.0000	Induction Furnace emissions factor derived from 2007 M29 stack test.
System Description: Juniper Mill Carbon Kiln (S2.002)								
Hg	5,591.00	tpy	0.00097	lbs/hr	7.3245	7,551	0.0000	Carbon Kiln emissions factor derived from 2007 M101A stack test.
System Description: Mercury Retort Circuit A (S2.004)								
Hg	19.76	tpy	0.00012	lbs/hr	0.4300	3,553	3.6895	Retort A emissions factor derived from 2007 M29 stack test.
System Description: Mercury Retort Circuit B (S2.005)								
Hg	17.26	tpy	0.000068	lbs/hr	0.2200	3,253	3.2885	Retort B emissions factor derived from 2007 M29 stack test.
System Description: Mercury Retort Circuit C (S2.005.1)								
Hg	14.01	tpy	0.0000053	lbs/hr	0.0100	2,642	3.1960	Retort C emissions factor derived from 2007 M29 stack test.
System Description: Mercury Retort Circuit D (S2.005.2)								
Hg	14.76	tpy	0.00001	lbs/hr	0.0300	2,899	3.0420	Retort D emissions factor derived from 2007 M29 stack test.
System Description: Pinon Carbon Kiln (S2.021)								
Hg	0.00	tpy	0.0171	lbs/hr	0.0000	0	0.0000	System did not operate in 2007.
System Description: Sage Mill Autoclave (Phase 1 - S2.023)								
Hg	1,711,457.00	tpy	0.0662	lbs/hr	523.9068	7,914	0.0000	Autoclave #1 emissions factor derived from 2007 M101A stack test.
System Description: Sage Mill Autoclave (Phase 2 - S2.024)								
Hg	1,699,260.00	tpy	0.033	lbs/hr	252.2520	7,644	0.0000	Autoclave #2 emissions factor derived from 2007 M101A stack test.
System Description: Electro-winning Cells (six cells ducted to common stack)								
Hg	Not reported	sol tons/yr	0.00157	lbs/hr	13.7532	8,760	0.0000	Electro-winning Cells emissions factor derived from 2007 M29 stack test.
System Description: Juniper Mill Pregnant & Barren (P/B) Tanks								
Hg	Not reported	sol tons/yr	0.0109	lbs/hr	95.4840	8,760	0.0000	P/B Tanks emissions factor derived from 2007 M29 stack test.
System Description: Pinon Mill Pregnant Solution Tank								
Hg	Not reported	sol tons/yr	0.000136	lbs/hr	1.1914	8,760	0.0000	See attached emissions calculation.
System Description: Pinon Mill Barren Solution Tank								
Hg	Not reported	sol tons/yr	0.000136	lbs/hr	1.1914	8,760	0.0000	See attached emissions calculation.
System Description: Laboratory Sample Prep. Room, Fire Assay Room, Wet Lab Room, Slurry Prep. Room, LECO Room, Instrumentation Room, Met Lab Room & Autoclave Room								
Hg					3.9471		0.0000	Potential to emit (PTE), not actual - see De Minimis Designation Tech. Rev.
			CY 2006 Facility Total:		434.3715		8.9100	CY 2006 Co-product: 17,820.00 lbs/yr
			CY 2007 Facility Total:		929.9303		13.2160	CY 2007 Co-product: 26,432.00 lbs/yr.
Source: Queenstake Resources USA, Inc - Jerritt Canyon Mine: AP1041-0778								
System Description: West Roaster Process (System 40 - S2.036 & PF1.213)								
Hg	468,581.00	tpy	0.1775	lbs/hr	1,274.4500	7,180	0.4900	Roaster emissions factor derived from average of 2007 M29 stack tests.
System Description: East Roaster Process (System 42 - S2.041 & PF1.214)								
Hg	507,084.00	tpy	0.071	lbs/hr	496.2900	6,990	0.5300	Roaster emissions factor derived from average of 2007 M29 stack tests.

Source: Queenstake Resources USA, Inc - Jerritt Canyon Mine: AP1041-0778 (continued)

System Description: Carbon Bed Venturi Scrubber (System 49 - Carbon Kiln - S2.041 & System 51 - Retort - S2.051)

Hg	12.00	tpy	0.012195	lbs/hr	35.7314	2,930	See Note	Scrubber emissions factor derived from 2006 OHM stack test. Mercury co-product accounted for under roasters.
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System Description: Ore Dryer (System 35 - S2.026)

Hg	967,727.00	tpy	0.0039	lbs/hr	19.6287	5,033	0.0000	Ore Dryer emissions factor derived from average of 2007 M29 stack tests.
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System Description: Refining Process Induction Furnace (System 50 - S2.050)

Hg	12.00	tpy	0.158437	lbs/hr	138.1571	872	See Note	Induction Furn. emissions factor derived from avg. of 2007 M29 stack tests. Mercury co-product accounted for under roasters.
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System Description: Laboratory Units Including Large Ore Drying Ovens (5 Units) and Electro-winning Cells

Hg					2.1363		0.0000	Potential to emit (PTE), not actual - see De Minimis Designation Tech. Rev.
					CY 2006 Facility Total: 293.9245		2.9600	CY 2006 Co-product: 5,920.00 lbs/yr.
					CY 2007 Facility Total: 1,966.3934		1.0200	CY 2007 Co-product: 2,040.00 lbs/yr.

Source: Newmont Mining Corporation - Gold Quarry: AP1041-0793

System Description: ROTP Dry-Grinding Static Separator (System 42 - S2.120 - S2.0124)

Hg	3,234,037.00	tpy	0.000732	lbs/hr	5.4776	7,483	0.0000	Static Separator emissions factor derived from 2007 M29 stack test.
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System Description: ROTP Ore Preheaters (System 43 - S1.125 - S2.130)

Hg	3,154,578.00	tpy	0.003163	lbs/hr	23.8047	7,526	0.0000	Ore Preheater's emissions factor derived from 2007 M29 stack test.
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System Description: ROTP Ore Roasters (System 44 - S2.131 - S2.156)

Hg	3,154,578.00	tpy	0.000333	lbs/hr	2.5062	7,526	1.3000	Ore Roaster's factor derived from 2007 M29 stack test.
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System Description: ROTP North Calcine Quench Circuit (System 47 - S2.158 & S2.159)

Hg	1,450,875.00	tpy	0.005148	lbs/hr	38.7438	7,526	0.0000	North Quench Circuit emissions factor derived from 2007 M29 stack test.
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System Description: ROTP South Calcine Quench Circuit (System 51 - S2.160 & S2.161)

Hg	1,703,703.00	tpy	0.00563	lbs/hr	41.9210	7,446	0.0000	South Quench Circuit emissions factor derived from 2007 M29 stack test.
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System Description: AARL Carbon Kiln #2 Scrubber Stack (System 73 - S2.058 & S2.059)

Hg	6,537.30	tpy	0.035088	lbs/hr	227.0544	6,471	0.0100	Kiln Scrubber Stack emissions factor derived from 2007 M29 stack test.
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System Description: AARL Carbon Kiln #2 Combustion Stack (System 73 - S2.058 & S2.059)

Hg	36,722.60	MMbtu/yr	0.001253	lbs/hr	8.1082	6,471	0.0000	Kiln Comb. Stack emissions factor derived from 2007 M29 stack test.
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System Description: Zadra Carbon Kiln #1 Scrubber Stack (System 72 - S2.056 & S2.057)

Hg	6,758.30	tpy	0.006165	lbs/hr	41.5891	6,746	0.0200	Kiln Scrubber Stack emissions factor derived from 2007 M29 stack test.
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System Description: Zadra Carbon Kiln #1 Combustion Stack (System 72 - S2.056 & S2.057)

Hg	43,993.80	MMbtu/yr	0.000405	lbs/hr	2.7321	6,746	0.0000	Kiln Comb. Stack emissions factor derived from 2007 M29 stack test.
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System Description: Refinery Mercury Retort Circuit (System 77 - S2.041 - S2.046)

Hg	62.00	tpy	0.0015365	lbs/hr	4.9414	3,216	2.1100	Retort emissions factor derived from 2007 M29 stack test.
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System Description: Refinery Induction & Pour Furnaces (System 78 - S2.047 - S2.049)

Hg	91.40	tpy	0.141178	lbs/hr	85.3986	605	0.0000	Induction Furnace emissions factor derived from 2007 M29 stack test.
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System Description: AARL Carbon Stripping (Pregnant) Tanks

Hg	15,244.00	tpy	0.001995	lbs/hr	17.4762	8,760	0.0000	Carbon Strip Tanks emissions factor derived from 2007 M29 stack test.
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System Description: Refinery Barren Tank & Electro-winning Cells

Hg	48,319,979.00	gal/yr	0.000361	lbs/hr	2.7691	7,671	0.0000	Electro-winning Cells emissions factor derived from 2007 M29 stack test.
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Source: Newmont Mining Corporation - Gold Quarry: AP1041-0793 (continued)								
System Description: Assay Laboratory, Met Laboratory & Integrated Laboratory								
Hg					1.8980		0.0000	Potential to emit (PTE), not actual - see De Minimis Designation Tech. Rev.
					CY 2006 Facility Total: 310.6937		2.7200	CY 2006 Co-product: 5,440.00 lbs/yr.
					CY 2007 Facility Total: 504.4204		6.1600	CY 2007 Co-product: 12,320.00 lbs/yr.
Source: Newmont Mining Corporation - Midas Operations: AP1041-0766.01								
System Description: Refinery Furnaces 1 & 2 (S2.035 & S2.036)								
Hg	Not reported	Not reported	0.00478	lbs/hr	3.9791	832	0.0000	Furnaces 1 & 2 emissions factor derived from 2007 M29 stack test.
System Description: Retort A (S2.037)								
Hg	Not reported	Not reported	0.0000987	lbs/hr	0.2532	2,565	0.0000	Retort emissions factor derived from 2007 M29 stack test.
System Description: Retort B (S2.038)								
Hg	Not reported	Not reported	0.00000684	lbs/hr	0.0134	1,959	0.0000	Retort emissions factor derived from 2007 M29 stack test.
					CY 2006 Facility Total: 17.1801		0.0000	CY 2006 Co-product: 0 lbs/yr.
					CY 2007 Facility Total: 4.2457		0.0000	CY 2007 Co-product: 0 lbs/yr.
Source: Barrick, Bald Mountain Mine - Huntington Valley: AP1041-1362								
System Description: Carbon Reactivation Kiln								
Hg	344.50	tpy	0.000017	lbs/hr	0.0720	4,237	0.0000	Carbon Kiln emissions factor derived from 2007 M29 stack test.
System Description: Electrowinning Cells								
Hg	78,074.00	tpy	0.00614	lbs/hr	46.4368	7,563	0.0000	Electro-winning Cells emissions factor derived from 2007 M29 stack test.
System Description: Retort Furnace								
Hg	8.09	tpy	0.000024	lbs/hr	0.0292	1,218	2.2750	Retort emissions factor derived from 2007 M29 stack test.
System Description: Bullion Furnace								
Hg	5.48	tpy	0.0374	lbs/hr	7.7512	207	0.0000	Bullion Furnace emissions factor derived from 2007 M29 stack test.
System Description: Assay Laboratory								
Hg					3.1246		0.0000	Potential to emit (PTE), not actual - see De Minimis Designation Tech. Rev.
					CY 2006 Facility Total: 204.3025		2.9400	CY 2006 Co-product: 5,880.00 lbs/yr.
					CY 2007 Facility Total: 57.4138		2.2750	CY 2007 Co-product: 4,550.00 lbs/yr.
Source: Kennecott Rawhide Mining Company - Denton-Rawhide Mine: AP1041-1116.02								
System Description: Carbon Regeneration Kiln (S2.001)								
Hg	356.88	tpy	0.00001685	lbs/hr	0.1432	8,497	0.0000	Carbon Kiln emissions factor derived from 2007 M29 stack test.
System Description: Electro-winning Circuit								
Hg	Not reported	tpy	0.00001437	lbs/hr	0.0448	3,120	0.0000	Electro-winning Cells emissions factor derived from 2007 M29 stack test.
System Description: System 1 - Mercury Retort (S2.002)								
Hg	18.54	tpy	4.74E-07	lbs/hr	0.0012	2,513	0.0276	Retort emissions factor derived from 2007 M29 stack test.
System Description: System 2 - Refinery Furnace Baghouse (S2.004)								
Hg	34.66	tpy	0.1134	lbs/hr	39.3611	347	0.0000	Refinery Furnace emissions factor derived from 2007 M29 stack test.
System Description: Fire Assay Laboratory								
Hg					0.0142		0.0000	Potential to emit (PTE), not actual - see De Minimis Designation Tech. Rev.
					CY 2006 Facility Total: 351.5928		0.0621	CY 2006 Co-product: 124.20 lbs/yr.
					CY 2007 Facility Total: 39.5645		0.0276	CY 2007 Co-product: 55.20 lbs/yr.

Source: Hycroft Resources & Development, Inc. - Crofoot/Lewis Project: AP1041-0334.02								
System Description: Mercury Retort #1								
Hg					0.0000		0.0000	Facility did not operate in 2007.
System Description: Mercury Retort #2								
Hg					0.0000		0.0000	Facility did not operate in 2007.
System Description: Mercury Retort #3								
Hg					0.0000		0.0000	Facility did not operate in 2007.
System Description: Furnace #1								
Hg					0.0000		0.0000	Facility did not operate in 2007.
System Description: Furnace #2								
Hg					0.0000		0.0000	Facility did not operate in 2007.
System Description: Furnace #3								
Hg					0.0000		0.0000	Facility did not operate in 2007.
					CY 2006 Facility Total:	0.0000	0.0000	CY 2006 Co-product: 0 lbs/yr.
					CY 2007 Facility Total:	0.0000	0.0000	CY 2007 Co-product: 0 lbs/yr.
Source: Metallic Ventures, Inc.: AP1041-1202								
System Description: Dore Furnace								
Hg					0.0000		0.0000	Facility did not operate in 2007.
System Description: Carbon Reactivation Kiln								
Hg					0.0000		0.0000	Facility did not operate in 2007.
					CY 2006 Facility Total:	0.0000	0.0000	CY 2006 Co-product: 0 lbs/yr.
					CY 2007 Facility Total:	0.0000	0.0000	CY 2007 Co-product: 0 lbs/yr.
Source: Coeur D'Alene Mining Corporation - Coeur Rochester Mine: AP1044-0063.02								
System Description: Refinery Furnace								
Hg	172.38	tpy	0.214	lbs/hr	130.7540	611	0.0000	Refinery Furnace emissions factor derived from 2007 M29 stack test.
System Description: Retort								
Hg	172.38	tpy	0.000632	lbs/hr	4.4613	7,059	15.4000	Retort emissions factor derived from 2007 M29 stack test.
System Description: Assay Laboratory								
Hg					1.8805		0.0000	Potential to emit (PTE), not actual - see De Minimis Designation Tech. Rev.
					CY 2006 Facility Total:	2.8872	16.1000	CY 2006 Co-product: 32,200.00 lbs/yr.
					CY 2007 Facility Total:	137.0958	15.4000	CY 2007 Co-product: 30,800.00 lbs/yr.
Source: Newmont Mining Corporation - Lone Tree Mine: AP1041-0059								
System Description: Autoclave (S2.004 - electrically fired)								
Hg	194,458.00	tpy	0.00539	lbs/hr	12.4886	2,317	0.0000	Autoclave emissions factor derived from 2006 M101A stack tests. System ceased operations in 2007, removed from oper. permit in 2008.
System Description: Carbon Kiln (S2.007 - electric induction)								
Hg		tpy		lbs/hr	0.0000		0.0000	System did not operate in 2007, removed from operating permit in 2008.
System Description: Electro-winning (EW) Cells (East and West)								
Hg		tpy	0.00659	lbs/hr	51.5602	7,824	0.0000	EW Cells emissions factor derived from 2007 M101A stack tests. Combined factor for both east and west cell banks was derived by doubling the average of east cell test results to estimate west cell emissions, then adding the average of scavenger stack test results to derive a combined factor for both banks.

Source: Newmont Mining Corporation - Lone Tree Mine: AP1041-0059 (continued)								
System Description: Pregnant and Barren Solution Tanks								
Hg		N/A	0.00938	lbs/hr	82.1688	8,760	0.0000	P/B Tanks emissions factor derived from 2007 M101A stack tests.
System Description: Sample Room, Fire Assay Room, Wet Laboratory, LECO Laboratory, Met Laboratory								
Hg					1.8788		0.0000	Potential to emit (PTE), not actual - see De Minimis Designation Tech. Rev.
			CY 2006 Facility Total:		622.1013		0.0000	CY 2006 Co-product: 0 lbs/yr.
			CY 2007 Facility Total:		148.0964		0.0000	CY 2007 Co-product: 0 lbs/yr.
Source: Barrick Gold Corporation, Cortez Gold Mines: AP1041-2141 (consolidated Title V permit for Class 2 permits AP1041-1500 & AP1041-0619.01)								
System Description: Refinery Induction Furnaces #1 & 2								
Hg	23.00	tpy	0.27	lbs/hr	193.0500	715	0.0300	Refinery Furnace's emissions factor derived from 2007 M101A stack test.
System Description: Electric Carbon Reactivation Kiln #1 (S2.006)								
Hg	183.00	tpy	0.00105	lbs/hr	2.6880	2,560	0.2900	Carbon Kiln #1 emissions factor derived from 2007 M101A stack test.
System Description: Electric Carbon Reactivation Kiln #2 (S2.007)								
Hg	155.00	tpy	0.00367	lbs/hr	7.9712	2,172	0.0000	Carbon Kiln #2 emissions factor derived from 2007 M101A stack test.
System Description: Electro-winning (EW) Cells (Train #1 - 3 cells)								
Hg	46.00	gal/min	0.00013	lbs/hr	1.1388	8,760	0.0000	EW Cells emissions factor derived from 2007 M101A stack test.
System Description: Electro-winning (EW) Cells (Train #2 - 3 cells)								
Hg	44.00	gal/min	0.00017	lbs/hr	1.4892	8,760	0.0000	EW Cells emissions factor derived from 2007 M101A stack test.
System Description: Assay Laboratory Furnace Baghouse								
Hg	25.00	tpy	0.000132	lbs/hr	1.0454	7,920	0.0000	Furnace emissions factor derived from 2007 M101A stack test.
System Description: Assay Laboratory (Analytical Lab Building), Met Laboratory, Strip Circuit Area (Mill Building), Refinery Gold Sludge Drying Oven								
Hg					0.6639		0.0000	Potential to emit (PTE), not actual - see De Minimis Designation Tech. Rev.
			CY 2006 Facility Total:		166.7059		0.1200	CY 2006 Co-product: 240.00 lbs/yr.
			CY 2007 Facility Total:		208.0466		0.3200	CY 2007 Co-product: 640.00 lbs/yr. Kiln #1 value (.29) is for both kilns.
Source: Florida Canyon Mining, Inc. - Florida Canyon Mine: AP1041-0106.02								
System Description: Mercurt Retorts (S2.003 & S2.004)								
Hg	22,100.00	lbs/yr	0.0000006	lbs/hr	0.0007	1,141	0.0000	Retort emissions factor derived from 2007 M29 stack test results; throughput for retorts and electrowinning circuits are the same.
System Description: Summit Valley Electro-winning Cell A (Model #75EC18)								
Hg	22,100.00	lbs/yr	0.00043	lbs/hr	3.7668	8,760	0.0019	Electro-winning Cells emissions factor derived from 2007 M29 stack test.
System Description: Summit Valley Electro-winning Cell B (Model #75EC18)								
Hg	22,100.00	lbs/yr	0.00012	lbs/hr	1.0512	8,760	0.0005	Electro-winning Cells emissions factor derived from 2007 M29 stack test.
System Description: Combustion Air International Carbon Kiln (Model #WCC250DX-2)								
Hg	2,490.00	tpy - carbon	0.00095	lbs/hr	8.3220	8,760	0.0042	Carbon Kiln emissions factor derived from 2007 M29 stack test.
System Description: Inductotherm Dore Furnace								
Hg	20,129.00	lbs/yr	0.0044	lbs/hr	1.2659	288	0.0006	Dore Furnace emissions factor derived from 2007 M29 stack test.
System Description: Pregnant Tank								
Hg	Not reported	lbs/yr	Not reported	lbs/hr	0.0000	Not reported	0.0000	No emissions factor available - closed circuit.
System Description: Barren Tank								
Hg	Not reported	lbs/yr	Not reported	lbs/hr	0.0000	Not reported	0.0000	No emissions factor available - closed circuit.

Source: Florida Canyon Mining, Inc. - Florida Canyon Mine: AP1041-0106.02 (continued)								
System Description: Assay Laboratory								
Hg					4.5934		0.0000	Potential to emit (PTE), not actual - see De Minimis Designation Tech. Rev.
					CY 2006 Facility Total: 440.7382		0.2264	CY 2006 Co-product: 452.80 lbs/yr.
					CY 2007 Facility Total: 19.0000		0.0072	CY 2007 Co-product: 14.40 lbs/yr.
Source: Round Mountain Gold Corporation - Smoky Valley Common Operation: AP1041-0444.01								
System Description: Carbon Regeneration Kiln (System 25 - S2.121)								
Hg	3,020.00	tpy	0.0052	lbs/hr	45.0372	8,661	0.0000	Carbon Kiln emissions factor derived from 2007 M29 stack test.
System Description: Electric Induction Furnace (System 24 - S2.130)								
Hg	54.90	tpy	0.0203	lbs/hr	11.6928	576	0.0000	Induction Furnace emissions factor derived from 2007 M29 stack test.
System Description: Refinery Electro-winning Vent & Ovens, Assay Laboratory Ovens.								
Hg					2.9352		0.0000	Potential to emit (PTE), not actual - see De Minimis Designation Tech. Rev.
					CY 2006 Facility Total: 57.0585		0.0085	CY2006 Co-product: 17.00 lbs/yr.
					CY 2007 Facility Total: 59.6652		0.0000	CY2007 Co-product: 0 lbs/yr.
Source: Homestake Mining Company - Ruby Hill Project: AP1041-0713.01								
System Description: Electric Carbon Regeneration Kiln (S2.019)								
Hg	175.40	tpy	0.00128	lbs/hr	5.0893	3,976	0.0400	Carbon Kiln emissions factor derived from 2007 M101A stack test.
System Description: Electric Mercury Retort (S2.022)								
Hg	5.00	tpy	0.0000001	lbs/hr	0.0001	891	0.3400	Retort emissions factor derived from 2007 M101A stack test.
System Description: Electric Refinery Induction Furnace (S2.013)								
Hg	4.81	tpy	0.0432	lbs/hr	4.1472	96	0.0000	Furnace emissions factor derived from 2007 M101A stack test.
System Description: Electro-winning Cells 1 & 2 (IA1.005)								
Hg	Not reported	Not reported	0.0028	lbs/hr	24.5952	8,784	0.0000	Electro-winning Cells emissions factor derived from 2007 M101A stack test.
System Description: Assay Laboratory								
Hg					1.3883		0.0000	Potential to emit (PTE), not actual - see De Minimis Designation Tech. Rev.
					CY 2006 Facility Total: 28.7825		0.5000	CY2007 Co-product: 1,000.00 lbs/yr.
					CY 2007 Facility Total: 35.2201		0.3800	CY2007 Co-product: 760.00 lbs/yr.
Source: Marigold Mining Company - Marigold Mine: AP1041-0158.02								
System Description: Carbon Regeneration Kiln (Existing drum with controls installed October, 2006.)								
Hg	212.40	tpy	0.00016	lbs/hr	0.4068	2,543	0.0000	Kiln removed from service 5/10/07 prior to 2007 source testing. Source used 01/17/06 source test w/99.9% control efficiency to derive em. factor.
System Description: Carbon Kiln (New)								
Hg	509.00	tpy	0.00000913	lbs/hr	0.0348	3,814	0.1053	Carbon Kiln emissions factor derived from 2007 M29 stack test.
System Description: Electro-winning Circuit (3 cells)								
Hg	Not reported	tpy	0.0000166	lbs/hr	0.1454	8,760	0.0000	Electro-winning Cells emissions factor derived from 2007 M29 stack test.
System Description: Retort								
Hg	7.90	tpy	0.0000116	lbs/hr	0.0110	951	0.1398	Retort emissions factor derived from 2007 M29 stack test.
System Description: Smelting Furnace (Tilting Crucible - uncontrolled)								
Hg	1.26	tpy	0.0089	lbs/hr	0.4174	47	0.0000	Furnace operated uncontrolled until 05/01/07. Furnace emissions factor derived from 2006 M101A stack test.
System Description: Smelting Furnace (Tilting Crucible - controlled)								
Hg	4.34	tpy	0.000229	lbs/hr	0.0447	195	0.0000	Furnace emissions factor derived from 2007 M29 stack test.

Source: Marigold Mining Company - Marigold Mine: AP1041-0158.02 (continued)								
System Description: Pregnant & Barren (P/B) Tanks								
Hg	Not reported	tpy	0.0000166	lbs/hr	0.1454	8,760	0.0000	P/B Tanks emissions factor derived from 2007 M29 stack tests.
System Description: Assay Laboratory								
Hg					4.0198		0.0000	Potential to emit (PTE), not actual - see De Minimis Designation Tech. Rev.
					CY 2006 Facility Total:	908.0610	0.1675	CY 2006 Co-product: 335.00 lbs/yr.
					CY 2007 Facility Total:	5.2255	0.2450	CY 2007 Co-product: 490.00 lbs/yr.
Source: Borealis Mining Company: AP1041-2125								
System Description: No Submittal								
Hg					0.0000		0.0000	Facility did not operate in 2007.
					CY 2006 Facility Total:	0.0000	0.0000	CY 2006 Co-product: 0 lbs/yr.
					CY 2007 Facility Total:	0.0000	0.0000	CY 2007 Co-product: 0 lbs/yr.
Source: Barrick Turquoise Ridge, Inc. - Getchell Mine: AP1041-0292.01								
System Description: Assay/Met Laboratory								
Hg					4.9660		0.0000	Potential to emit (PTE), not actual - see De Minimis Designation Tech. Rev.
					CY 2006 Facility Total:	10.6752	0.0000	CY 2006 Co-product: 0 lbs/yr.
					CY 2007 Facility Total:	4.9660	0.0000	CY 2007 Co-product: 0 lbs/yr.
Source: Newmont Mining Corporation - Phoenix Mine: AP1041-0220.02								
System Description: Electric Carbon Regeneration Kiln (S2.002)								
Hg	2,704.50	tpy	0.0000134	lbs/hr	0.0408	3,048	0.0000	Carbon Kiln emissions factor derived from 2007 M29 stack test.
System Description: Retort (S2.014)								
Hg	26.63	tpy	2.43E-07	lbs/hr	0.0004	1,442	0.0000	Retort emissions factor derived from 2007 M29 stack test.
System Description: Pregnant & Barren Tanks Solution Vent System								
Hg			0.0000107	lbs/hr	0.0937	8,760	0.0000	Potential to emit (PTE), not actual - see De Minimis Designation Tech. Rev.
System Description: Electro-winning Cells (4 cells operated in 2 banks)								
Hg			0.0000312	lbs/hr	0.2733	8,760	0.0000	Potential to emit (PTE), not actual - see De Minimis Designation Tech. Rev.
					CY 2006 Facility Total:	2.3061	0.0000	CY 2006 Co-product: 0 lbs/yr.
					CY 2007 Facility Total:	0.4082	0.0000	CY 2007 Co-product: 0 lbs/yr.
Source: Golden Phoenix Minerals, Inc.: AP1041-0694.01								
System Description: Dore Furnace								
Hg					0.0000		0.0000	Facility did not operate in 2007, permit allowed to expire 02/24/08.
System Description: Wet Scrubber								
Hg					0.0000		0.0000	Facility did not operate in 2007, permit allowed to expire 02/24/08.
System Description: Electro-winning Cell								
Hg					0.0000		0.0000	Facility did not operate in 2007, permit allowed to expire 02/24/08.
System Description: Electro-winning Cell								
Hg					0.0000		0.0000	Facility did not operate in 2007, permit allowed to expire 02/24/08.
System Description: Sludge Dryer								
Hg					0.0000		0.0000	Facility did not operate in 2007, permit allowed to expire 02/24/08.
					CY 2006 Facility Total:	0.0000	0.0000	CY 2006 Co-product: 0 lbs/yr.
					CY 2007 Facility Total:	0.0000	0.0000	CY 2007 Co-product: 0 lbs/yr.

Source: Barrick Goldstrick Mines, Inc.: AP1041-0739.01								
System Description: Roasters #1 & #2 (System 18 - S2.209)								
Hg	5,553,326.00	tpy	0.0567	lbs/hr	447.8733	7,899	56.0300	Roaster emissions factor derived from avg. of 2007 M29 stack tests.
System Description: Carbon Kiln #2 Drum (System 61 - S2.004.1)								
Hg	8,348.00	tpy	0.0214	lbs/hr	147.3176	6,884	0.4900	Kiln emissions factor derived from avg. of 2007 & Feb. 08 M29 stack tests.
System Description: Autoclave #1 (System 66 - S2.015)								
Hg	843,578.00	tpy	0.00112	lbs/hr	8.8838	7,932	0.0000	TBD (To be determined pending completion of evaluation).
System Description: Autoclaves #2 & #3 (System 66 - S2.016 & S2.017)								
Hg	2,244,412.00	tpy	0.000741	lbs/hr	6.2900	8,489	0.0000	TBD (To be determined pending completion of evaluation).
System Description: Autoclave #4 (System 66 - S2.018)								
Hg	1,129,705.00	tpy	0.000181	lbs/hr	1.4860	8,210	0.0000	TBD (To be determined pending completion of evaluation).
System Description: Autoclaves #5 & #6 (System 66 - S2.019 & S2.020)								
Hg	2,214,877.00	tpy	0.00137	lbs/hr	11.0038	8,032	0.0000	TBD (To be determined pending completion of evaluation).
System Description: Mercury Retorts #1 (System 67 - S2.009)								
Hg	Not reported	tpy	0.0043	lbs/hr	8.8967	2,069	0.0000	TBD (To be determined pending completion of evaluation).
System Description: Mercury Retorts #2 (System 67 - S2.010)								
Hg	Not reported	tpy	0.0004	lbs/hr	0.9728	2,432	0.0000	TBD (To be determined pending completion of evaluation).
System Description: Mercury Retorts #3 (System 67 - S2.011)								
Hg	Not reported	tpy	0.0035	lbs/hr	6.6920	1,912	0.0000	TBD (To be determined pending completion of evaluation).
System Description: Mercury Retorts #1 - #3 (System 67 - S2.009 - S2.011 Cumulative Co-product)								
Hg							2.1100	Cumulative co-product for all three mercury retorts.
System Description: West & East Melting Furnaces & Electrowinning Cells Combined Operation (System 68 - S2.013 & S2.014, vented through common carbon filter)								
Hg	85.00	tpy	0.00711	lbs/hr	4.4615	628	0.0000	Furnaces/EW Cells combined ems. factor derived from M29 stack test.
System Description: Electrowinning Cells only								
Hg	Not reported	tpy	0.00271	lbs/hr	19.1123	7,053	0.0000	Electro-winning Cells emissions factor derived from M29 stack test.
System Description: Mill #1 Air Pre-Heater and Dry Grinding Process (System 15 - S2.204 & S2.205.01 - S2.205.12)								
Hg	2,621,171.00	tpy	0.00175	lbs/hr	13.8950	7,940	0.0000	TBD (To be determined pending completion of evaluation).
System Description: Mill #2 Air Pre-Heater and Dry Grinding Process (System 16 - S2.206 & S2.207.01 - S2.207.12)								
Hg	2,484,238.00	tpy	0.00125	lbs/hr	9.8175	7,854	0.0000	TBD (To be determined pending completion of evaluation).
System Description: Analytical Laboratory Assay Facility (System 70 - S2.051)								
Hg	Not reported	tpy	0.002	lbs/hr	17.5200	8,760	0.0000	Assay Laboratory emissions factor derived from 2007 M29 stack test.
System Description: Assay, Mill, Mill Met, Autoclave, Autoclave Met and Roaster Pumphouse Laboratories, Strip Circuit Area and Ore Fines Fee System.								
Hg					4.4366		0.0000	Potential to emit (PTE), not actual - see De Minimis Designation Tech. Rev.
					CY 2006 Facility Total:	616.7650	98.5500	CY 2006 Co-product: 197,100.00 lbs/yr.
					CY 2007 Facility Total:	708.6590	58.6300	CY 2007 Co-product: 117,260.00 lbs/yr.
Source: The Plum Mining Company, LLC - Billy The Kid Mine: AP1041-0936								
System Description: Induction Furnace - System to be removed from site.								
Hg					0.0000		0.0000	System did not operate in 2007.
					CY 2006 Facility Total:	0.0000	0.0000	CY 2006 Co-product: 0 lbs/yr.
					CY 2007 Facility Total:	0.0000	0.0000	CY 2007 Co-product: 0 lbs/yr.

Source: Royal Standard Minerals, Inc. - Manhattan Mine: AP1041-1457

System Description: Dore Smelting Furnace

Hg			4.1040		0.0000	Potential to emit (PTE), not actual - see De Minimis Designation Tech. Rev.
		CY 2006 Facility Total:	0.0000		0.0000	CY 2006 Co-product: 0 lbs/yr.
		CY 2007 Facility Total:	4.1040		0.0000	CY 2007 Co-product: 0 lbs/yr.
CY 2007 Cumulative Totals						CY 2007 process emissions were largely derived using one consistent FRM testing methodology (Method 29) with scattered M101A and OHM results used in lieu of M29 due to test schedule conflicts/logistics issues. Testing protocols were reviewed prior to test commencement and all final report submittals were reviewed to ensure reporting accuracy. Co-product: 195,361.60 lbs/yr
		Process Emissions lbs/yr			Co-Product tpy	
		4,832.4548			97.6808	
CY 2006 Cumulative Totals						CY 2006 process emissions and co-product values were accepted "as submitted" due to variability in testing methodology, emission calculation methods and/or the lack of current FRM test results. Co-product: 266,520 lbs/yr
		Process Emissions lbs/yr			Co-Product tpy	
		4,468.1500			133.2600	